

JP2002258284

Publication Title:

BACK LIGHT UNIT WITH BOTH SIDES LIGHT OUTPUT FOR LIQUID CRYSTAL DISPLAY DEVICE

Abstract:

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PROBLEM TO BE SOLVED: To provide a back light unit with both sides light output which can generate both sides light by using a single light guiding board without a reflecting board. SOLUTION: The back light unit with both sides light output for irradiating both sides light to a pair of liquid crystal panels comprises fluorescent lamps 102 which are included in a molded frame and generate light, lamp reflectors 106 which are formed in order to surround the fluorescent lamps and reflect the light generated from the fluorescent lamps, light guiding boards 104 which are formed between the paired liquid crystal panels adjoining the fluorescent lamps and include the light guiding board 104 with multiple patterns for generating the both sides light by scattering the light reflected in the lamp reflectors uniformly to upper and lower sides, and a paired diffusing boards 120 which are formed between each liquid crystal panel and the light guiding board respectively and uniformize the light scattered from the light guiding boards.

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